

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/519,505  
Source: PCT  
Date Processed by STIC: 3/3/06

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PCT

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/519,505**

DATE: 03/03/2006  
TIME: 11:56:35

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\03032006\J519505.raw

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80	gccagaagaa	agctgaggcc	tgtgagtgc	gaaaggaagc	ctgtgggggt	ggagctctga	1860
82	gtttagcaca	gggagcagag	aaagggcagc	tggaggggaa	ggcaggggca	gatgaaatc	1920
84	tctttttaa	attaattaat	tottaatttta	tttatttttgc	agacaaggtc	tcactcttc	1980
86	gcccagactg	gagtacagtgc	gcacaatctc	agcgacccgc	aacctctgcc	accaggctc	2040
88	aagcaattct	ctggcctcag	cctccctagt	agctgggatt	acaggtgcgc	accactactg	2100
90	cccagctaat	tttatactt	tttagtagaaa	cggggttca	ctatgttgc	caggctggcc	2160
92	tcaaactcct	gacctaaaaa	gatccaccc	cttcagcctc	ccaaagtgc	gggattacag	2220
94	gtgtgagcca	cccttcccg	ctgtatttt	ggagacagag	tcttgctctg	tcccagcctg	2280
96	gagtaggtg	gtgtgaattt	ggctcattgc	caccttgacc	tccagggtc	aagtgtatcct	2340
98	cccacccatc	cctcctgagt	agctgggact	gcgggtacac	gacaccacgc	ctggtaatt	2400
100	tttttaattt	tttttagag	acgagggtat	ctcactatgt	tgtccaggt	gggtgaactc	2460
102	ctgagctcaa	gcaattctcc	cacccatgc	tcccaaagtgc	gtgggattac	agacgtgagc	2520
104	caactgtgccc	ggcttaattt	attacataa	attttttat	gtttactttt	ctatctccta	2580
106	caggaagaaa	atataatttgc	ttattgacag	ggtctcgct	tgttgcctcag	gctggatttg	2640
108	ggctcaagcc	atccctttcc	ctcagcctcc	caaagtactg	ggattacaag	cgtgagcctc	2700
110	tgcattccagc	ccagatccaa	aatctttact	gtcacctaca	gagtcctctg	taactagctt	2760
112	actgctcattc	atccccatac	caacccacct	tactgtctg	atctcctcct	ctctctcccc	2820
114	cagctcattt	tgtttcagct	atgctggct	ccttgctgtc	tctaaaacat	aacaagcaca	2880
116	tcccatctca	gggccttgc	accagctatt	ttgtctgcct	ggaatgtgt	ttccctgtat	2940
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128	ctgtactcca	gcctgggtga	caaagcaaga	ctctgtctca	aaaaaaaaaa	agtctccttc	3300
130	tcaatgaggg	cttcctgacc	accaaaattt	atctacctcc	tagacacaca	cacacacgc	3360
132	cgcacgcacg	cacacacaca	cacgcacgc	cgcacacaca	cacacacaca	cacactatata	3420
134	cccccttccc	tgctttatttgc	ttcttgagag	ctcatttaac	catgtgacat	gctgaatatt	3480
136	ttacttattt	attttgcata	gaaagctct	ggctggcgc	gggggctcac	gcctgtatc	3540
138	ccagcactt	gggaggctgg	aacaggtgga	tcatgtgagg	tcaggagttc	cagaccagcc	3600
140	tgaccaacac	ggtaaaacct	catctctatt	aaaaatgca	aaatttagctg	ggtgtgggt	3660
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150	accaggctgg	ccaaacatgg	gaaacctcat	ctctactaaa	aataaaaaaa	ttagccgggc	3960
152	gtgggtacac	atgtctgt	tccctgactac	ttggggggct	gaggctggag	aatggcttga	4020
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156	cagactccgt	ctcagaaaagg	aagaaagaag	gaaagagaga	aagagagaaa	gagacagaga	4140
158	gagagagaga	aaggagaaaa	gagagaaagg	atgaaaggac	cctgacaagc	actgttgcata	4200
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162	tgttgcctca	gctgaagtgc	agtgggtgaga	acatggctca	gtgcagcctc	aacttcccag	4320
164	gcttaagtga	tcctgccacc	tcagcctct	gagtagctgg	gactgttagt	gtgcaccacc	4380
166	gtgccttagct	attttttgc	attttagta	gagacatgg	tccgcccacgt	tgcccaggct	4440
168	ggtcttgaac	tcctggctt	aagggtatgc	cccggccatgg	cctccaaag	tgctgggatt	4500
170	accagcgtga	gccactgtac	ccagccttag	tataggtttgc	tgataaaattt	tagatcata	4560
172	ttgtttggac	tgggtaaagaa	tttccagaaac	tctaatacg	aaactgactg	gtttatattt	4620
174	tatatttattt	tatatttata	tttttagat	ggatttcac	tcttggcc	caagctggat	4680
176	tgcagtggca	cgatcttggc	tcaccacaac	ctccgcctcc	cggttcaag	tgattctcct	4740

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178	gcctcagcct	ccccaggagc	tgggattaca	ggcacccacc	accatgctcg	gctattttt	4800
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182	aactcctgac	ctcaggtgat	ccacccgcct	tggcctccca	aagcgctggg	attacaggca	4920
184	tgagccactg	tgcaaggcct	aggctggttt	ataaaaattgc	taaacaaggc	agaacatgaa	4980
186	ttaaatacca	aggaaatact	ctccttagatt	gtcatgttac	atcagccaat	actaaaattg	5040
188	tcaagataca	caatttgaat	gaactccatg	gtccaaagtcg	aattatctat	gatattaccc	5100
190	atctaataaa	cagcactatg	tcccttaatg	ggagaaaaaaag	ttggagaatt	taagagaata	5160
192	tcaatccaaat	gttggttggg	tgcagtgaat	catgtctata	ttcccagcac	tttgggaggc	5220
194	caaggcagga	ggatcaactg	agccccaggaa	ttcaaggcca	gcctcgccaa	cacggtgaga	5280
196	tcctgtctct	acggaaaatt	aaaaaaaaaa	aaagagagag	attagtggga	tgtggtgccct	5340
198	atagtccca	ctacttggg	ggctgaggcg	ggaggatcat	ttaagcctgg	gacgttgagg	5400
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208	ctggcagcta	gcctctggct	caagtgtcac	atggcctgtc	tctgtctcc	tatccaaatct	5700
210	tcctcttata	agaacattgg	agccaggcat	ggtggctgac	gcctgtatc	ccagcacttt	5760
212	gggagaccga	ggcaggcgg	tcacaaggc	aggagttcga	gaccagcctg	gccaacacacag	5820
214	tgaaaccccg	tctctactaa	aaaaatacaa	aaaagtagcc	gggcattgg	gcaggtgcct	5880
216	gtaatccca	ctacttgaga	ggctgaggca	ggagaatcgc	ttgaacctgg	gaggcagagc	5940
218	ttgcagtgag	ccgagatagt	gccaatgcag	tccggcctgg	gogaaacagc	gagactccgt	6000
220	cgcaaaaaaaaaa	aaaaaataat	aataaataat	aaataaaaaat	aaaaataaaa	taaaaaata	6060
222	aaaataataa	aataaataaa	aattatttg	agacaaatgc	tattctgtgg	cagaggctgg	6120
224	aatgcagtgg	cgtgatcaca	gttactgca	gcttctacct	cctgagctca	agcgatcctt	6180
226	ccacccggc	ttcctgagta	gctgggacct	caggttaca	ttaccacgt	cagctaatta	6240
228	tttatttttatt	tattatattt	ttgtgacgga	gtttcgctc	tgttgcctgg	gctggagtgc	6300
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252	tacaatgggt	caatcttggc	tcaccacaaac	ttccgcctcc	cggtttaac	agattctct	7020
254	gcctcagcct	cccaagtagc	ttgaactaca	ggcacccatc	accacaccag	gctaattttt	7080
256	gtgttttttta	gttagagatga	gttttccacca	tgttggccag	gctggctta	aactcctggc	7140
258	ctccagtgat	ccaccggcct	tgaccccttca	aagtgtgaa	attacaggcg	tgagcaccgc	7200
260	gcctggccctc	tcaacactaca	atttcaacac	ccaaggaaac	agccccacat	gatgtgagaac	7260
262	cagcagacac	aacaaactat	aggatttagt	gcctccaaac	ttcaggtgtat	agattatcag	7320
264	gcatgtactt	gaaactaaag	gacacaaaag	aagaatccga	aatataaaaat	aaaggattgg	7380
266	acttgcgtga	aaagaatccc	ttagaaagg	ctactttcag	gctggccatg	gtggctaaatg	7440
268	gcctgtatc	ccagcacttt	gaaaggccga	ggtgtgtgga	tcacctgagg	tcaagagttc	7500
270	aagaccagcc	tggccaaat	gttggaaaccc	cgtctctact	gaaaatacaa	aaatttagcca	7560
272	ggtgggggtgg	cagatgcctg	taatcccagc	tactcgggag	gctgaggccag	gagaatcgct	7620
274	tgaactcagg	aggcagaggt	tgcagtgagc	tgagattgcg	ctatcgtgcc	ccagcctggg	7680

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276	cactagagt	agatcaaaaa	aaaaaaaaaa	aaaagaagaa	gaagaagaaa	ggctacttt	7740
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280	tcaaaaagaga	agaaagtcaa	tttctgtgca	aactactttt	atttataagg	aaagtttctc	7860
282	tatTTgttt	ataaacatta	aaccagtgt	gtgtgaaggc	acttaattgg	ggagaggtgg	7920
284	ggcagggatc	ctggtagaga	ccaatgttc	ccacccagac	cccaagactg	ctgggagaga	7980
286	tgggtcagc	agtgactccc	aggaatatcc	agtgggtgtg	tggccatcc	cagccccggc	8040
288	tgggcaggt	gctggcttc	tgggggatgt	gatgatggtg	gtaggcatgg	gaggcactt	8100
290	ggacgggatc	tgattggca	aaaggaagt	gtttctgtc	cccagtatt	tccagccctt	8160
292	cccagacctc	ccaaggctaa	ggcagattac	taaatttaag	gtggggccc	tccttcttcc	8220
294	ctggacttcc	aggagaacag	agaaccgggt	gcaaggacca	ccaccagcag	ggtgagggt	8280
296	gcagataaag	gcagcaaaaa	acagagggag	aggtctggag	ggaaggcagg	aatgcttgg	8340
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308	ggagaagccc	acctctctc	aacaccttgg	ttgtctttt	gggtcccacc	tccatattta	8700
310	aaaaatctcc	tctctcagg	ccgggagcag	tgggtcacac	ctataatccc	agcagtttgg	8760
312	gaggccgagg	tgggtggatg	acctgagctc	aggagttcaa	gacaagcctg	gtcaacatga	8820
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316	aatcccagct	acttgggagg	ctgaggcagg	agaatcactt	aatccggga	ggtggaggct	8940
318	gcagtgagcc	aagatcgcgc	cactgactc	cagctggc	gacgcagctg	aagctgtgtc	9000
320	tccaaaaaca	aaacacacac	acacacacac	acaaaaaaa	aaaacaaaa	aaaaaaaaatc	9060
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346	gcagtaactgg	cgagcaccct	acatcctgac	agcttataa	agggcgctc	cagccaggt	9840
348	cgttggcaca	tgcctgtat	cccaggactt	tggaggctg	aggcgggcag	gtcacctgag	9900
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356	tcaactgcact	ccagtctggg	tgacaaagca	agactccatc	tcaaataat	aaatacaaaat	10140
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366	cactccagcc	tggcgcacag	agcgagactc	cgtttcagaa	ataaataat	aaaataaaaa	10440
368	taaaaataaa	aaaataatag	aaatttaaaa	ataaaaataa	gggctttcc	tcacctactc	10500
370	cactaactat	aagggaccct	taccccccac	attactatta	aatataacgg	actttcgtc	10560
372	tcctccccat	gagcaataat	gagctttca	gacccctc	tcccaatata	acggtttgtt	10620

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374	cctgttgctt	cttcttttc	ctgtgggatc	ccctttcc	ccaacccca	actgtcgaa	10680
376	ggccccatg	acttctcccc	tgggctcacc	ccgaagtagt	tccgcggcac	gtagccctcc	10740
378	tggccgtgca	gcgcggccca	ccaccagtcg	gtctccctcg	gcccgtccct	ccgcagcacg	10800
380	gtgaccgact	cgcctcgcg	gaaggacagc	tcgtccccga	actcggcgct	gtagtcccag	10860
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386	caggacagac	cctggattt	ggcgcctgtc	ccagcaacca	cctgaaatgt	tgtgtgtgcc	11040
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394	aggctggagt	gcagtggcac	gatctcggt	cactgcaacc	tccgcctccc	gggttcacac	11280
396	cattctcctg	cctcagcctc	ccgagtagct	gggactacag	gcgcggccca	ccacgcctgg	11340
398	ctaatttttg	gtatttttag	tagatcagg	gttccaccgt	tttagccagg	atgttctcga	11400
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402	gccaccgcgc	ccggcctttt	ttttttttt	tttttttgc	agatggaaatt	tcgtctttgt	11520
404	cgcggcaggca	ggagtgcaat	ggtgcggct	cactgcaacc	tccgcctccg	gagttcgagc	11580
406	cattctcctg	cctcagcctt	ccaagtagct	gggattacag	gtgtgcggca	ccatgcctgg	11640
408	ccaatttttg	tatcttttagt	agagacgggg	tttccatcg	ttggtcaggc	tggtatcaa	11700
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414	agaggtccag	tctttgccc	taccctggcg	cttagctta	tggttacagt	ctctaaggaa	11880
416	gattgcacc	tccctgtat	gatagggtcc	ttaagttgg	ctcatctgcc	tctttttttt	11940
418	cttttctttt	cttttctttt	tggagacgga	gtctgtct	gtcgcccagg	ctggagtgc	12000
420	gtggcgcgat	ttcggtcac	tgcaacctcc	gcctctggg	ttccagcaat	tctctgcct	12060
422	cagcctccaa	agtagctggg	actacaggcc	cacggcgcta	cacccggcta	aattgttta	12120
424	tatTTTaaat	agagacgggg	tttccaccgt	ttgcccaggc	tggtttgaa	atcttgagct	12180
426	catgcaatcc	gccccctcg	agcctccaa	agtgttaga	ttacaggcat	gagccaccgc	12240
428	gcctggctt	cttttctttt	tcttttctt	tttttttca	gacaaggct	cactctgcca	12300
430	cccaggctgc	gggagtgcag	ttgtgagatc	aagcttactg	cagcctcgaa	cttccagatt	12360
432	caagcaatcc	tcctgcctca	gcctcctcct	gatttttat	gttattatta	aatattttgt	12420
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442	tgggctatgg	tgccattgca	ctccagctcg	ggtgacagag	caagactctg	tctaaaaaaa	12720
444	taaataaaata	aaaataaaata	aatatttctgt	agaggtcagg	tgtggtgct	cacacctgaa	12780
446	tcttagcact	ttgggaggcc	aagggtggca	gattgcctga	gctcaagagt	tcgggaccag	12840
448	cctgggcaac	actgcaaaaac	cccttctgt	ctaaaaatac	aaaaaaaaatga	gtcgccatg	12900
450	gtggtgagca	cctgtgtcc	cagctactca	agaggtctag	gcagagaatt	gcttgaatcc	12960
452	aggaggtgg	ggttgcagtg	agccgagatt	gagccactgc	actccagct	gggtgacagt	13020
454	gagactctgt	ctcaaaaata	ataataaaata	aatatttgc	gagacagggg	gtctctacaa	13080
456	tgtctttag	cctgaccagg	ctcaccccttc	aaatataata	ccctctgtct	caccataa	13140
458	tccttaggacc	tgcctca	caactctccg	tgaagttcc	tgcccacacc	gagataaca	13200
460	tggctcctcc	aggtgtgaaa	tgaccctgt	cacaatcccc	gtggcacagc	ctacttcgccc	13260
462	ctgccccgtcg	gggaaccagg	tgatgttagcc	tgccttgg	agagatagg	tacaggcttg	13320
464	tgtttcccta	caagccctt	tctggcagct	gtagccct	cacctgccc	tgggtggca	13380
466	atgcctctcc	cacaagtggc	agagccacc	tgcccagac	cctatgccc	gtagatggca	13440
468	gggttgaaac	gttcagctcc	tcacccttga	agatgtgaaa	ggtgagcaga	ccaatctca	13500
470	cagccactct	cctcccaaaa	ggtgtccagc	tcgcata	cagcctccat	gtcccccttt	13560

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/03/2006  
PATENT APPLICATION: US/10/519,505 TIME: 11:56:36

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\03032006\J519505.raw

### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/519,505

DATE: 03/03/2006

TIME: 11:56:36

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\03032006\J519505.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date